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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/766,275	01/19/2001	Toshio Kobayashi	SHC0104	1331	
7590 09/22/2004			EXAMINER		
Michael S Gzybowski			BOYD, JENNIFER A		
Butzel Long 350 South Main Street			ART UNIT	PAPER NUMBER	
Suite 300 Ann Arbor, MI 48104			1771		
			DATE MAILED: 09/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicat	Application No.		Applicant(s)				
		09/766,2	275	KOBAYASHI ET AL.					
		Examine	er	Art Unit					
		Jennifer	A Boyd	1771					
Th Period for Re	e MAILING DATE of this communicately	ation appears on th	e cover sheet	with the correspondence a	ddress				
THE MAIL - Extensions after SIX (6) - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR ING DATE OF THIS COMMUNICATION of time may be available under the provisions of 3 MONTHS from the mailing date of this community for reply specified above is less than thirty (30) of for reply is specified above, the maximum statute ply within the set or extended period for reply will received by the Office later than three months after ent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no e ication. Iays, a reply within the state ory period will apply and very by statute, cause the apply statute.	vent, however, may a atutory minimum of th will expire SIX (6) MC plication to become	a reply be timely filed nirty (30) days will be considered time DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	ely. communication.				
Status									
1)⊠ Res	ponsive to communication(s) filed (on <u>29 <i>June</i> 2004</u> .							
2a)⊠ This	This action is FINAL . 2b) This action is non-final.								
3)☐ Sinc									
clos	ed in accordance with the practice	under Ex parte Q	<i>uayl</i> e, 1935 C.	D. 11, 453 O.G. 213.					
Disposition o	f Claims								
4)⊠ Clair	m(s) <u>1-7</u> is/are pending in the appli	cation.							
	4a) Of the above claim(s) <u>4 and 5</u> is/are withdrawn from consideration.								
_	5) Claim(s) is/are allowed.								
6)⊠ Clair	Claim(s) <u>1-3,6 and 7</u> is/are rejected.								
	n(s) is/are objected to.								
8)∐ Clair	n(s) are subject to restriction	n and/or election i	requirement.						
Application P	apers								
9) <u></u> The s	specification is objected to by the E	xaminer.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Appli	cant may not request that any objectio	n to the drawing(s)	be held in abeya	ance. See 37 CFR 1.85(a).					
	acement drawing sheet(s) including the				• •				
11)∐ The c	oath or declaration is objected to by	y the Examiner. N	ote the attache	ed Office Action or form P	TO-152.				
Priority under	35 U.S.C. § 119								
	owledgment is made of a claim for b) Some * c) None of: Certified copies of the priority doc			§ 119(a)-(d) or (f).					
2.	Certified copies of the priority dod	cuments have bee	en received in A	Application No					
3	Copies of the certified copies of t			n received in this National	Stage				
* Caa th	application from the International	7	` ''						
See ui	e attached detailed Office action fo	or a list of the certi	fied copies no	t received.					
Attachment(s)									
	ferences Cited (PTO-892)			Summary (PTO-413)					
3) 🔲 Information	aftsperson's Patent Drawing Review (PTO-Disclosure Statement(s) (PTO-1449 or PTC			(s)/Mail Date Informal Patent Application (PT0	O-152)				
Paper No(s)	/Mail Date		6)	<u></u> •					

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DETAILED ACTION

Response to Amendment

- 1. The Applicant's Amendments and Accompanying Remarks, filed June 29, 2004, have been entered and have been carefully considered. Claims 1 and 2 are amended, claim 7 is added and claims 1-3 and 6 are pending. The invention as currently claimed is not found to be patentable for reasons herein below.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Double Patenting

- 3. Claims 1 3 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 30 of copending Application No. 09/613814 in view of Morman (US 5,681,645). The details of the obvious-type double patenting rejection can be found in paragraph 3 of the previous Office Action dated March 29, 2004. The rejection is maintained.
- 4. Claim 6 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,372,067 to Kobayashi et al. The details of the obvious-type double patenting rejection can be found in paragraph 4 of the previous Office Action dated March 29, 2004. The rejection is maintained.
- 5. Claim 6 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,531,014 to Kobayashi. The

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details of the obvious-type double patenting rejection can be found in paragraph 5 of the previous Office Action dated March 29, 2004. The rejection is maintained.

Claim Rejections - 35 USC § 103

6. Claims 1 – 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strack et al. (US 5,681,645) in view of Morman (US 5,681,645). The details of the rejection can be found in paragraph 6 of the previous Office Action dated March 29, 2004. The rejection is maintained.

The Applicant has amended claim 2 to require that the propylene homopolymer is present in the amount of greater than 0% to 90% by weight. The Applicant has added claim 7 requiring that the inelastic sheet comprises ethylene/propylene copolymer containing ethylene at 0.5 – 10% by weight, ethylene/propylene/butene containing ethylene at 0.5 – 10% by weight and butene at 0.5 – 15% by weight, or a mixtures at 100 % by weight

Strack teaches the claimed invention except fails to disclose that the propylene homopolymer is present in the amount of greater than 0 to 90% by weight as required by amended claim 2. Additionally, Strack fails to teach that the component fibers of the sheet having inelastic stretchability comprises ethylene/propylene copolymer containing ethylene at 0.5 - 10% by weight, ethylene/propylene/butene containing ethylene at 0.5 - 10% by weight and butene at 0.5 - 15% by weight, or a mixture thereof at 100 - 10% by weight as required by new claim 7.

Morman describes multi-directional stretch composite elastic material comprising at least one sheet which is stretched and one necked (non-elastic) material, which are joined together in

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at least three locations corresponding to the instantly claimed binding spots (column 3, lines 30-45). Morman describes the non-elastic materials are nonwovens made of polyolefins and similar polymers including ethylene copolymers, propylene copolymers and butene copolymers (column 4, lines 44 - 64). Morman teaches that necked material can also comprise polypropylene (column 7, lines 1 – 10). Morman notes that the neckable material can comprise a mixture of two or more fibers (column 7, lines 30 – 35). Therefore, in one embodiment, fibers can comprise ethylene/propylene/butene copolymers as one fiber type and polypropylene as another fiber type. It should be noted that if polypropylene is present in any amount, it will meet Applicant's requirement of greater than 0%.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to create the non-elastic textile web of Strack with the copolymer and polypropylene fiber combination of Morman motivated by the desire to improved resilience, stretch and recovery of the composite.

Strack in view of Morman discloses the claimed invention except for that the inelastic material comprises ethylene/propylene copolymer containing ethylene at 0.5 - 10% by weight, ethylene/propylene/butene containing ethylene at 0.5 - 10% by weight and butene at 0.5 - 15% by weight, or a mixture thereof at 100 by weight as required by claim 7. It should be noted that the amount of ethylene or ethylene and butene is a result effective variable. For example, as the amount of ethylene increases, the material possess more characteristics similar to ethylene, etc. It would have been obvious to one having ordinary skill in the art at the time the invention was made to create the inelastic material comprising ethylene/propylene copolymer containing ethylene at 0.5 - 10% by weight, ethylene/propylene/butene containing ethylene at 0.5 - 10% by

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weight and butene at 0.5 – 15% by weight, or a mixture thereof at 100% by weight since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). In the present invention, one would have been motivated to optimize the amounts of ethylene or the amounts of ethylene and butene in order to have a properly strong and resilient composite web.

Response to Arguments

- 7. Applicant's arguments filed June 29, 2004 have been fully considered but they are not persuasive.
- 8. In response to Applicant's request to hold the obvious-type double patenting rejections in abeyance until the Terminal Disclaimer is submitted, the Examiner has respectfully maintained the rejection until the proper paperwork has been filed.
- 9. In response to Applicant's argument that the "necked material" is made of polyolefins that is taught to be a component of elastic materials, the Examiner respectfully argues the contrary. Although the Examiner previously incorporated Wisneski (US 4,663,220) to demonstrate the optimization of the copolymer components, the currently standing rejection does not rely on Wisneski as a teaching. Therefore, it is irrelevant that Wisneski teaches that the percentages of the polyolefin copolymers were determined for elastomeric materials rather than inelastic materials. It should be noted that Morman positively teaches that the *non-elastic materials* are nonwovens made of polyolefins and similar polymers including ethylene copolymers, propylene copolymers and butene copolymers (column 4, lines 44 64). Morman teaches that non-elastic necked material can also comprise polypropylene (column 7, lines 1 –

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- 10). Morman notes that the non-elastic neckable material can comprise a mixture of two or more fibers (column 7, lines 30 35). Because Strack in view of Morman fails to disclose a certain weight percentage for each component, it is held that the percentages are a result of optimization absent any evidence to the contrary. If the claimed ranges have unexpected results, the burden is upon the Applicant to demonstrate that the claimed ranges are not a matter of simple optimization. The Examiner highly suggests to the Applicant to submit a 37 CFR 1.132 Declaration to establish unexpected results. In the Declaration, the Applicant should compare a sufficient number of tests both inside and outside the claimed range to show the criticality of the claimed range. *In re Hill*, 284 F.2d 955, 128 USPQ 197 (CCPA 1960) and must compare the claimed subject matter with the closest prior art to be effective to rebut a prima facie case of obviousness.
- 10. In response to Applicant's argument that the prior art does not teach that after the fibrous assembly is bonded to the elastic sheet the resulting composite is stretched so as to change the dimensions of the fibers in the fibrous assembly and the elastic stretchability of the composite sheet, the Examiner respectfully submits that the fiber dimensions of the fibrous assembly and the elastic stretchability would inherently change in the composite of Strack in view of Mormon since the prior art meets all claimed chemical/structural limitations. If those properties are not inherent, it is asserted that Applicant's claim must be incomplete. In other words, if Applicant's asserts a lack of inherency in Strack in view of Morman, then Applicant's claimed invention is missing an element that is critical to the invention, which would patentably distinguish it from the known prior art.

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Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A Boyd whose telephone number is 571-272-1473. The examiner can normally be reached on Monday thru Friday (8:30am - 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Boyd

September 15, 2004

Ula Ruddock
Ula G. Ruddock

Primary Examiner Tech Center 1700